

IN THE CLAIMS:

1. (previously presented) For use in communicating data over a voice channel between a transmitter of a base station and a receiver of a handset of a cordless telephone, a system comprising:
a silence detector, coupled to said transmitter, that identifies a pause in voice traffic that is to be transmitted over said voice channel and generates an interjection signal during said pause; and
a data injector, coupled to said silence detector, that receives said interjection signal and responds by causing said transmitter to transmit data to said receiver over said voice channel.

2. (original) The system as recited in Claim 1 wherein said voice traffic is analog voice traffic.

3. (canceled)

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Cont. 4. (original) The system as recited in Claim 1 wherein said data comprises caller identification data.

5. (original) The system as recited in Claim 1 wherein said data comprises menu item selection data.

6. (original) The system as recited in Claim 1 wherein said transmitter transmits said voice traffic in frames.

7. (original) The system as recited in Claim 1 wherein said silence detector identifies said pause by comparing a peak energy of said voice traffic to a noise floor reference.

8. (previously presented) A method of communicating data over a voice channel between a transmitter of a base station and a receiver of a handset of a cordless telephone, comprising:
identifying a pause in voice traffic that is to be transmitted over said voice channel; and

responding to said pause by causing said transmitter to transmit data to said receiver over said voice channel.

9. (original) The method as recited in Claim 8 wherein said voice traffic is analog voice traffic.

10. (canceled)

11. (original) The method as recited in Claim 8 wherein said data comprises caller identification data.

12. (original) The method as recited in Claim 8 wherein said data comprises menu item selection data.

C1 Cont. 13. (original) The method as recited in Claim 8 wherein said transmitter transmits said voice traffic in frames.

14. (original) The method as recited in Claim 8 wherein said identifying comprises comparing a peak energy of said voice traffic to a noise floor reference.

15. (original) A cordless telephone, comprising:

a base station transceiver;

a handset transceiver, said base station and handset transceivers cooperable to establish a voice channel therebetween;

a silence detector, coupled to said base station transceiver, that identifies a pause in voice traffic that is to be transmitted over said voice channel and generates an interjection signal during said pause; and

a data injector, coupled to said silence detector, that receives said interjection signal and responds by causing said base station transceiver to transmit data to said receiver over said voice channel.

16. (original) The cordless telephone as recited in Claim 15 wherein said voice traffic is analog voice traffic.

17. (original) The cordless telephone as recited in Claim 15 wherein said data comprises caller identification data.

18. (original) The cordless telephone as recited in Claim 15 wherein said data comprises menu item selection data.

21 Cont 19. (original) The cordless telephone as recited in Claim 15 wherein said base station transceiver transmits said voice traffic in frames.

20. (original) The cordless telephone as recited in Claim 15 wherein said silence detector identifies said pause by comparing a peak energy of said voice traffic to a noise floor reference.

21. (new) The system as recited in Claim 1 wherein said system receives said voice traffic and said data from a telephone line coupled thereto.

22. (new) The method as recited in Claim 8 further comprising receiving said voice traffic and said data from a telephone line coupled to said base station.
